Claims: The following is a listing of all claims in the application with their status and the text of all active claims.

- 1. (CURRENTLY AMENDED) A Q-switch laser apparatus to deliver a sequence of laser pulses comprising:
 - a laser cavity formed by a pair of reflective surfaces;
 - a laser gain medium mounted in said laser cavity;
 - optic coupling elements;
 - a continuous optical pump radiation source whose pump radiation is coupled through said coupling elements in said laser gain medium;
 - a quadratic electro-optic Q-switch mounted in said laser cavity, wherein the Q-switch comprises a La modified PMN-PT material;
 - said Q-switch being connected with an electronic unit generating a radio frequency wave with positive and negative pulses alternatively; and
 - said Q-switch being controlled by the radio frequency wave in such a way that laser pulse is generated when the radio frequency wave changes its polarity.
- 2. (CANCELED)
- 3. (CANCELED)
- 4. (CANCELED)
- 5. (CURRENTLY AMENDED) The Q-switch defined in claim [4] 1 further comprises La modified PMN-PT with the composition of 3.5/75/25.
- 6. (CURRENTLY AMENDED) The laser apparatus in claim 1 wherein said <u>La modified</u> PMN-PT electro-optic Q-switch operates at a voltage of 500 volts or less.
- 7. (CURRENTLY AMENDED) The laser apparatus in claim 1 wherein said <u>La modified</u>

 <u>PMN-PT</u> electro-optic Q-switch operates at a pulse repetition frequency up to 1MHz.
- 8. (CURRENTLY AMENDED) The laser apparatus in claim 1 wherein said <u>La modified</u>

 <u>PMN-PT</u> electro-optic Q-switch operates at a laser wavelength from 530 nm to

 3000nm.
- 9. (CURRENTLY AMENDED) The laser apparatus in claim 1 wherein said <u>La modified</u>

 <u>PMN-PT</u> electro-optic Q-switch comprises a plate with [of transparent La modified

 <u>PMN-PT-material of</u>] a width (w) of about 0.4 -3 mm, a thickness (t) of about 1.30 -3

 mm, and a length (l) of about 1.0 3.0 mm; [the plate having an optical axis 45°

- oriented to a polarization direction of radiation,] the plate having electrodes for applying an operating voltage less than 500 volts.
- 10. (CURRENTLY AMENDED)A Q-switch laser apparatus to deliver a sequence of laser pulses comprising:
 - a laser cavity having a pair of reflective surfaces;
 - a laser gain medium mounted in said laser cavity;
 - optic coupling elements;
 - a continuous optical pump radiation source whose pump radiation is coupled through said coupling elements in said laser gain medium;
 - a quadratic electro-optic Q-switch mounted in said laser cavity, wherein the Q-switch comprises a La modified PMN-PT material;
 - said Q-switch being connected with an electronic unit generating a radio frequency wave with positive and negative pulses alternatively;
 - said Q-switch being controlled by the radio frequency wave in such a way that laser pulse is generated when the radio frequency wave changes its polarity; and a polarizer mounted [45° to the optical axis of] to said Q-switch.
- 11. (CURRENTLY AMENDED) A Q-switch laser apparatus to deliver a sequence of laser pulses comprising:
 - a laser cavity having a pair of reflective surfaces;
 - a laser gain medium mounted in said laser cavity;
 - a frequency doubling KTP mounted in said laser cavity;
 - optic coupling elements;
 - a continuous optical pump radiation source whose pump radiation is coupled through said coupling elements in said laser gain medium;
 - a quadratic electro-optic Q-switch mounted in said laser cavity, wherein the Q-switch comprises a La modified PMN-PT material;
 - said Q-switch being connected with an electronic unit generating a radio frequency wave with positive and negative pulses alternatively; and
 - said Q-switch being controlled by the radio frequency wave in such a way that laser pulse is generated when the radio frequency wave changes its polarity.